STARBASE Kansas City Summer Academies 2023

STARBASE is an award winning, premier, youth education STEM program, designed to ignite interest in Science, Technology, Engineering, and Math while encouraging critical thinking through hands-on/minds-on activities and projects.

Summer Academy	Dates
Young Engineers	June 5-8
Young Engineers	June 5-8
Flight School	June 12-15
Flight School	June 19-22

KANSAS STARBASE

Ages: Students having completed 4th or 5th grade in May 2023.

Hours: 9:00 am-2:00 pm Monday-Thursday

Location: Lenexa National Guard Armory~18200 W 87th Street~Lenexa, KS

Registration: Registration begins March 21, 2023. Download enrollment form at www.kansasstarbase.org and email to gena@kansasstarbase.org

There is no cost | **Donations accepted**

Summer Academy Descriptions

Young Engineers:

Students will develop an appreciation for engineering through various Engineering Design Process activities that lead to a final Capstone Project. These include:

- Designing and building a robot to solve a real-world problem
- Designing and building a bridge with criteria and constraints
- Interacting with various experts in the field of engineering
- Investigating green energy through circuitry
- Working with a computer aided design (CAD) program

CAPSTONE project involves aerodynamics and the use of a wind tunnel to observe various shaped cars and the air flow around them to help assist in predicting a cars success rate when raced down a CO_2 race track.

Flight School:

Students will learn about the history of flight, airplane parts and navigation. These include:

- Interacting with real life pilots and learning about their journeys to accomplish this feat
- Building a rocket and launching it
- Building a glider and testing it-along with a friendly competition
- Using CAD to design
- Using Flight simulation both on computer and the VR Goggles
- Learning about Bernoulli's Principle through centers

CAPSTONE project involves students designing a wing and then testing it in a wind tunnel (or on the OnShape CAD program), while determining its possible success on an airplane.